Exchange 2000 Conferencing Server
Lab Environment Configuration and Setup

This document describes the step-by-step process in creating a standalone, lab environment to test/demo/evaluate the Exchange Conferencing Server..

Required Hardware

Accessories
3 x Video Camera (e.g. Philips PCA646VC)
4 port network hub and cables (multicast capable, most are…)

Machine 1 (server)
Windows 2000 Advanced Server
(min.) PII 266+, 256Meg RAM, 4Gig HD

Machine 2 & 3 (clients)
Windows 2000 Professional
Outlook 2000
(e.g.) PII 266 128Meg, 2G HD

Server Installation

Install Win2K Advanced Server from retail CD
Name the server something like “RTC”
When prompted to include **additional** components, select
- Certificate Services (optional, required for private meetings)
- Internet Information Services (IIS)
  - NNPT Service
- Networking Services
  - DNS
  - DHCP

Initially select a workgroup name (e.g. testworkgroup)
You will be prompted to set the server with static IP, use 10.1.1.1/255.0.0.0, DNS=10.1.1.1

Server Setup

From the **Configure your Server** wizard, select **Start the Active Directory wizard**
- Select Domain Controller for New Domain
- Select Create a New Domain Tree
- Select Create a New Forest of Trees
- Name the DNS (e.g. RTCDC.local)
- Accept default NetBios name (eg RTCDC) and storage locations
- Will warn about DNS, select yes to running DNS setup wizard, accept defaults
- Your server will reboot

Click on the “Finish Setup” to complete configuration of Certificate Services (if installed)
Select Enterprise Root CA
Enter descriptive information (e.g My Test CA)

Right click “my computer”, select manage, select Services and Applications
Right click DHCP, to configure DHCP and multicast Scopes
Select New Scope, enter IP range 10.1.1.2 ->10.1.1.200 (for client machines)
Right click DHCP again and select New Multicast Scope, enter IP range e.g. 230.0.0.0-230.1.1.1
Your server is now ready to install Exchange and Exchange Conferencing Server

Exchange Setup

The following steps describe the installation and configuration of the RC1 version of Exchange 2000. You can download RC1 from
http://www.microsoft.com/exchange

Run Exchange 2000 Server setup.exe
Select Custom Action for Microsoft Exchange 2000 installation
Select Install for the following components:
Microsoft Exchange Messaging and Collaboration Services
Microsoft Exchange Conference Management Service
Microsoft Exchange System Management Tools
Microsoft Exchange T.120 MCU Conference Service
Select Create a New Exchange Organization
Select OK to extend the Windows Schema
Click Finish

Exchange Conferencing Configuration

Start/Programs/Microsoft Exchange/System Manager
Right click Conferencing node and Select Manage…
Select default (and only) site.
Select Yes, to configuring your Conference Calendar Mailbox
Press Create, enter account details
e.g. Display Name = Exchange Conference Mailbox, Logon Name = exccm)
Optionally set a password (you don’t need to remember it)
Close the dialog
Expand the conferencing name and right click on the site conference services node, select properties
Select the Resources tab and press Add
Enter details, eg display name = “Conf Rm. Data/video(10), logon name = cfdv10
Press Add, to assign technology provider,
In this example, add ExchangeDataConferencingProvider, set max participants to 10

Press Add again to assign ExchangeVideoConferencingProvider, set max participants to 10
You can leave all other video properties at the default.
Add additional Conferencing Resources as necessary

User Account Configuration

Select Start/Program/Administrative Tools/Active Directory Users and Computers
Right click Users in the tree, select New/User
Enter account details
Accept default and create an Exchange Mailbox for this user
Click Finish
Add additional users as necessary (at least two, one for each demo machine)

Configuring Client Machine

Install Windows 2000 Professional
Join Machine into Server's domain
Give this machine's user account local admin rights (so can install software)
Login as user account into server's domain
Install Outlook 2000
Run RegEdit and create new registry **key** (not a value)
`HKEY_CURRENT_USER\Software\Microsoft\Office\9.0\Outlook\ExchangeConferencing`
Start Outlook.

Scheduling your first meeting

Open Outlook's calendar
Create a New Meeting Request (Ctrl-Shift-Q)
Check "This is an online meeting using"
Select in adjoining list, "Microsoft Exchange Conferencing"
Select "To…" to invite attendees (e.g. the other client)
From "Show Names the:" list, select "All Conferencing Resources"
The address list will only show the Conferencing Resources you created earlier
Select a conference resource and press "Resources" to make the conference resource a resource of the meeting.
Ensure "Allow External Attendees is selected
(optionally) Enter a 'clear-text' password.
Select "Attendee Availability" to confirm the free/busy for attendees and the conferencing resource.
Press "Send"
You will be prompted with a confirmation box telling you that the resource was booked
(I suggest not checking – don't show me this again – since then you know you've booked ok)
If you scheduled a meeting in the future, then from the meeting reminder, press "Join Conference"

If you schedule a meeting that is in session now, either open the item, or right click and select “Join Conference”

Enabling Secure Conferencing

If you did the optional setup of installing Windows 2000 Certificate Services, you can allow clients to schedule access controlled, secured, online meetings.
For each client machine, log in as the user account

Browse to http://rtc/certsrv (assuming your server is called rtc)
Accept all defaults and finally install the returned certificate

Schedule a new online meeting, this time unselect “Allow External Attendees”

The meeting will now only allow invited attendees and
Will authenticate and encrypt the data portion of the conference.